

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) An apparatus for simulating ~~modeling~~ an anti-resonance circuit of a section of a microprocessor, comprising:

a processor;

memory;

instructions residing the memory and executable on the processor, the instruction for representing:

a simulated load that models a load of ~~model that simulates~~ the anti-resonance circuit;

a simulated transistor that ~~simulates~~ models at least one high-[[]]frequency capacitance of the anti-resonance circuit-capacitor, wherein the simulated transistor is connected in parallel with the simulated load ~~model~~; and

a simulated capacitor that ~~simulates~~ models an intrinsic capacitance of ~~a~~ the section of the microprocessor, wherein the simulated capacitor is connected in parallel with the simulated load ~~model~~.

2. (Currently Amended) The apparatus of claim 1, wherein the simulated load ~~model~~ is ~~simulates the anti-resonance circuit with a~~ simulated resistor.

3. (Currently Amended) The apparatus of claim 2, wherein the simulated resistor is a simulated voltage-[[]]controlled resistor.

4. (Curerntly Amended) The apparatus of claim 1, wherein ~~the load model simulates~~ the anti-resonance circuit is simulated in synchronization with a simulated clock cycle.

5. (Cancelled)
6. (Currently Amended) The apparatus of claim 4, wherein simulation of the load model begins to ~~simulate~~ the anti-resonance circuit begins on a leading edge of the simulated clock cycle.
7. (Cancelled)
8. (Currently Amended) A method for ~~modeling~~ simulating an anti-resonance circuit of a section of a microprocessor, comprising:
 - simulating ~~modeling~~ a load to ~~generate a simulation of an~~ the anti-resonance circuit;
 - simulating at least one high frequency capacitance of the anti-resonance circuit ~~capacitor~~ in parallel with the simulated ~~load model~~; and
 - simulating ~~a section of the microprocessor's~~ an intrinsic capacitance in parallel with the simulated ~~load model~~.
9. (Currently Amended) The method of claim 8, wherein the load is simulated ~~modeled~~ with a simulated resistor.
10. (Currently Amended) The method of claim 9, wherein the simulated resistor is a simulated voltage[[]]-controlled resistor.
11. (Currently Amended) The method of claim 8, wherein ~~the~~ simulation of the anti-resonance circuit is synchronized with a simulated clock cycle.
12. (Cancelled)
13. (Currently Amended) The method of claim 11, wherein ~~the~~ simulation of the anti-resonance circuit begins on ~~the~~ a leading edge of the simulated clock cycle.

14. (New) An apparatus for simulating an anti-resonance circuit of a section of a microprocessor, comprising:
- a processor;
 - memory; and
 - instructions residing in the memory and executable by the processor, the instructions to:
 - simulate a load of the anti-resonance circuit with a simulated resistor;
 - simulate a high-frequency capacitance of the anti-resonance circuit with a simulated transistor connected in parallel with the simulated resistor; and
 - simulate an intrinsic capacitance of the section of the microprocessor with a simulated capacitor connected in parallel with the simulated resistor.
15. (New) The apparatus of claim 14, wherein the simulated resistor is a simulated voltage controlled resistor.
16. (New) The apparatus of claim 14, wherein the anti-resonance circuit is simulated in synchronization with a simulated clock cycle.
17. (New) The apparatus of claim 14, wherein the simulation of the anti-resonance circuit begins on a leading edge of the simulated clock cycle.